Points of agreement

- 1. The goal is to find and characterize Earth-sized planets in the habitable zones of nearby F-G-K (and some M) stars.
- --If we don't shoot for this goal, we won't be competitive with large ground-based telescopes in 10-20 years, and we won't satisfy the questions of the general public
- 2. We should be aiming for a UV/optical telescope as the exoplanet flagship mission for the next decade.
- --Bandpass works for both coronagraphs and occulters
 - --Good biomarkers/atmospheric spectral features
 - --Near-IR would be desirable
- --Strong community support for UV/optical astronomy.
- --Europeans (3 of them anyway) could support this proposal
- 3. Broad appeal to other areas of astronomy is essential.
- 4. The necessary size of the telescope remains TBD. 4 m is the minimum size needed to satisfy requirement 1.
- --To make this decision, we need better information about η_{Earth} (which we should get from Kepler) and on exozodi level (for which we will get some, possibly enough, information from LBTI).

- --A small (1.2-1.5m) space-based coronagraph mission could provide additional information on exozodi brightnesses.
- 5. A dedicated 3-5 m telescope with a new-generation spectrograph could contribute enormously to our knowledge of exoplanets from RV measurements.
- 6. We need to have (at a minimum) a spectrum, the actual mass, and orbital semi-major axis in order to fully characterize an exoplanet.

Points of possible agreement

- 1. If η_{Earth} is low and a big telescope is needed, some TPF concepts (*e.g.* the external occulter) would benefit from having a target list ahead of time.
- -- The target list is *not* likely to be derivable from ground-based RV measurements.
- --Space-based astrometry could, in principle, provide such a list.

Points on which we need to agree

- 1. Do we need to make a down-select on TPF mission architecture (coronagraph or occulter, or both?) by 2015?
- --Does aperture size need to be picked by this time, as well?
- 2. Should NASA's Exoplanet Technology money be deployed in a "bottoms-up" manner, as today, or in a "top-down" manner, following one suggestion?
- 3. How should we set up the TPF architecture down-select process?